NEVADA DIVISION OF ENVIRONMENTAL PROTECTION FACT SHEET

(pursuant to NAC 445A.236)

Permittee: Duncan Burgess L.L.C.

1400 Wolf Run Road Reno, Nevada 89511

Permit Number: NEV98018

Discharge Location:

Wolf Run Golf Club 1400 Wolf Run Road Reno, Washoe County, Nevada 89511

Section 19, Township 18 North, Range 20 East Latitude: 39° 24' 55" N; Longitude: 119° 46' 20" W.

Wolf Run Golf Course is located in southwest Reno, between Zollezi Lane and Arrow Creek Parkway

Public Water Supply:

A public water supply well of the South Truckee Meadows GID (STMGID #3) is located on the golf course north of the irrigation pond. This well is owned and operated by Washoe County Department of Water Resources (WCDWR). A 75' buffer zone exists between the furthest extent of the spay irrigation and STMGID #3. Due to the relatively short distance of separation between turf spray irrigation and the STMGID #3, a Well Head Protection Survey is required to be performed. Additionally, total nitrogen monitoring will be required on STMGID #3 on a quarterly basis. Because of the proximity of the discharge to the drinking water well, WCDWR will be provided specific notice of this proposed permit renewal.

Flow:

Up to 1.0 million gallons per day (MGD); Up to 337 acre feet per year (110 million gallons). The peak usage month is July, with an average monthly demand of 26 million gallons. Irrigation occurs from mid-March to mid-October.

General:

The Wolf Run Golf Club is partially irrigating (spray and drip) the Wolf Run Golf Course with treated effluent from the South Truckee Meadows Water Reclamation Facility (STMWRF; Permit #NEV40024). Additional water for irrigation is supplemented from Whites Creek and Steamboat Ditch. The course consists of 18-holes plus a driving range, covering a total area of approximately 82 acres. It is characterized by Whites Creek traversing through the course area.

Discharge Characteristics:

At a minimum, effluent used for irrigation is treated to meet tertiary standards, is denitrified and disinfected with chlorine. Data on file for the period July 2004 to March 2005 reports effluent characteristics as follows in Table 1 below (treated effluent water quality data is supplied by the STMWRF):

Table 1

Parameter	Permit Limits	Average (7/04 to 3/05)	
CBOD ₅	30 mg/l	2.4 mg/l	
TSS	30 mg/l	1.9 mg/l	
Fecal Coliform	2.2 CFU/100ml	<1.0 CFU/100ml	
TKN-N	No Limit	2.0 mg/l	
Nitrate-N	10 mg/l	2.0 mg/l	
Total Nitrogen as N	No Limit	4.0mg/l	











Receiving Water Characteristics:

Treated effluent used for irrigation discharges to groundwater, which is reported to be at least 150' below ground surface. Groundwater in the area of Wolf Run Golf Course is of drinking water quality.

The application of reclaimed water shall be conducted in such a manner to minimize the potential of discharge to surface waters.

Proposed Limitations:

Proposed limitations are set to verify the constituent composition of effluent discharges and control application and operational parameters to protect groundwater conditions.

During the period beginning on the effective date of this permit and lasting until the permit expires, the Permittee is authorized to discharge treated wastewater effluent for irrigation of the Wolf Run Golf Course.

Flow monitoring shall be recorded at the magnetic flow meter on the irrigation delivery line prior to reuse. Reclaimed water quality shall be in accordance with the limits set forth in Permit NEV40024 for the STMWRF. STMGID Well #3 shall be monitored quarterly for total nitrogen.

The discharge shall be limited and monitored by the Permittee as specified below:

Parameters	Discharge Limitation		Monitoring Requirements	
	30 Day Annual	Monthly Maximum	Measurement	Sample Type
	Average		Frequency	
Flow (MGM)	Monitor & Report	Monitor & Report ³	Continuous	Flow Meter
Annual Treated	337 Acre Feet		Cumulative	Flow Meter
Effluent Application	Volume determined from Consumptive Use		Total for the	
Volume	Balance ²		Year to Date	
Fecal Coliform ¹	2.2 /100 ml	23 /100 ml	Weekly	Discrete
(MPN)				
Total Nitrogen as N	Monitor & Report	Monitor & Report	Quarterly	Discrete
$(mg/L)^4$				

- : Sample results to be received from NEV40024. Permittee does not need to provide this data.
- ²: Annual application volume is based upon 110% of the application volume determined in the EMP.
- 3: Monthly application rates in the EMP should be used as a guide.
- 4: Sample to be taken from STMGID #3

Schedule of Compliance:

The Permittee shall implement and comply with the provisions of the following schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance.

- The Permittee shall achieve compliance with the effluent flow monitoring requirements upon issuance of the permit.
- o An updated Effluent Management Plan (EMP) shall be prepared by a qualified professional and submitted to the Division within 30 days of permit issuance (**January XX**, **2006**). The EMP shall address ponding water adjacent to cart paths and aerosols and overspray off of the course turf with appropriate remediation procedures.
- O A Well Head Protection Survey shall be prepared by a qualified professional and submitted to the Division for STMGID #3 within 30 days of permit issuance (**January XX, 2006**).
- The Permittee shall submit current cross-connection control documentation required by part I.A.11 in permit within 30 days of permit issuance (**January XX, 2006**).











Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Reno Gazette-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of publication of the public notice. All comments must be received by 5:00 PM <u>December 29, 2005</u>. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238. The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue (renew) the proposed permit for a period of five years.

Rationale for Permit Requirements:

Part I.A.2. - This part of the permit includes the limitation and monitoring requirements for the discharge.

FLOW - The flow quantity in the permit is based upon the water requirement determined for the course irrigation. The annual volume of treated effluent applied is given a limit of 337 acre-feet. Monthly maximum limits are based upon the monthly water requirement determined in the water budget with a 10% exceedance factor.

Reclaimed water will be applied in a manner to minimize ponding and prevent run-off from the site. Irrigation after a significant rainfall event will not be conducted.

FECAL COLIFORM – The limit of 2.2 CFU/100 ml is met by STMWRF.

NITROGEN- A nitrogen budget will be conducted each year as part of the effluent management plant (EMP). This budget will help to control the amount of nitrogen entering the subsurface.

Prepared by: Jim Hogan

October 2005









